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REPORT OF THE COMMITTEE OF BIBLIOGRAPHY.

The committee has written to the publishers of secondary school texts, the colleges, the national and state departments, and the associations of teachers of mathematics, inquiring as to their publications. The list of books accompanying this report has been prepared from the material sent in answer to these requests, and everything which might be of interest to a teacher of secondary mathematics was included unless it had already been listed in the "Bibliography of the Teaching of Mathematics" published by the United States Bureau of Education as Bulletin No. 503. Books omitted from the publishers' latest catalogs are not included. It has not seemed necessary for the purpose of this report to index its various parts, as any title wanted can easily be found under its appropriate sub-head.

Corrections and suggestions will be welcomed.

EUGENE RANDOLPH SMITH,
Chairman.

WALTER ROBERTS,
CLARENCE P. SCOBORIA,
GEORGE F. WILDER.

PART I.

Text Books.

Topics: Algebra; Geometry; Trigonometry; Miscellaneous.

The following abbreviations, enclosed in parentheses, will be used to denote the publishers indicated:

- (A.) American Book Company.
- (A.B.) Allyn and Bacon.
- (Ap.) D. Appleton & Co.
- (B.) A. S. Barnes & Co.
- (C.) The Century Co.
- (Ca.) Cassell & Co.
- (Ch.) University of Chicago Press.
- (C.P.) Cambridge Press.
- (Cr.) E. S. Crawley, University of Pennsylvania.

- (D.) E. P. Dutton & Co.
 (G.) Ginn & Co.
 (Go.) R. B. Goff, Fall River, Mass.
 (H.) D. C. Heath & Co.
 (H.H.) Henry Holt & Co.
 (H.N.E.) Hinds, Noble and Eldredge.
 (J.) B. F. Johnson Publishing Co.
 (Jo.) G. W. Jones, Cornell University.
 (S.J.) S. T. Jones, Gunter, Texas.
 (L.) J. B. Lippincott Co.
 (L.B.) Little, Brown & Co.
 (L.G.) Longmans, Green & Co.
 (M.) Chas. E. Merrill Co.
 (Mac.) MacMillan & Co.
 (M.H.) McGraw Hill Book Co.
 (No.) H. H. Norris, Cornell University.
 (O.) Oxford Press.
 (Pu.) G. P. Putman's Sons.
 (R.) R. H. Rivenburg, Hightstown, N. J.
 (Ru.) Rutgers College.
 (S.) Chas. Scribner's Sons.
 (Sa.) B. H. Sandborn & Co.
 (Sb.) Sibley & Co.
 (So.) Christopher Sower Co.
 (S.B.) Silver Burdett & Co.
 (S.F.) Scott, Foresman & Co.
 (V.) D. VanNostrand & Co.
 (W.) John Wiley & Sons.

Algebra.

The fact that an algebra is published in parts is indicated by the numbers I and II following the title. If one part only is published separately, its number alone is used. The word (Key) following a title indicates that it is published both in text-book and key form.

1. Aley & Rothrock The Essentials of Algebra (S.B.)
2. Atwood, G. E. Standard School Algebra (S.B.)
3. ——— Higher Algebra (S.B.)
4. Ball, W. R. Elementary Algebra (C.P.)
5. Beman & Smith Academic Algebra (G.)
6. ——— Elements of Algebra (G.)

7. Bowser, E. A. Academic Algebra (H.)
8. ——— College Algebra (H.)
9. Boyd, J. H. College Algebra (S.F.)
10. Bradbury, W. F. Elementary Algebra (D.)
11. Bradbury & Emery Algebra for Beginners (D.)
12. ——— Academic Algebra (D.)
13. Brooks, E. Elementary Algebra (So.)
14. ——— Standard Algebra (So.)
15. Brown, T. K. Elementary Algebra (A.)
16. Colaw & Powers School Algebra (J.)
17. ——— Elementary Algebra (Key) (J.)
18. Collins, J. V. Practical Algebra (I and II) (A.)
19. ——— Practical Elementary Algebra (A.)
20. Davison Algebra for Secondary Schools (C.P.)
21. Dupuis, N. F. The Principles of Elementary Algebra
(Mac.)
22. Durell, Fletcher Introductory Algebra (M.)
23. ——— School Algebra (M.)
24. Evans, G. W. Algebra for Schools (H.H.)
25. Downey, J. F. Higher Algebra (II and Complete) (A.)
26. Fairbank & Hebden Elements of Algebra (D.)
27. Fine, H. B. College Algebra (G.)
28. Fisher & Schwatt Rudiments of Algebra (Mac.)
29. ——— Secondary Algebra (I and Complete)
(Mac.)
30. Fite, W. B. First Course in Algebra (H.)
31. French & Osborn Elementary Algebra (C.P.)
32. Gideon Model Elementary Algebra (Key)
(H.N.E.)
33. Gilbert, J. H. Algebra Lessons for Supplementary and
Review Work (3 Parts) (H.)
34. ——— Practical Lessons in Elementary Al-
gebra (Mac.)
35. ——— Complete Algebra (Mac.)
36. Gorse, F. A School Algebra Course (3 Parts)
(C.P.)
37. Graham, R. M. Elementary Algebra (L.G.)
38. Griffin, W. M. Grammar School Algebra (A.)
39. Hall & Knight Algebra for Colleges and Schools (Mac.)
40. ——— Elements of Algebra (Mac.)
41. Hawkes, H. E. Advanced Algebra (G.)
42. Hawkes, Luby & Touton .. Complete School Algebra (I and II) (G.)
43. Hedrick, E. R. Algebra for Secondary Schools (A.)
44. Hopkins & Underwood ... A First Book in Algebra (Mac.)
45. Hull, G. M. Elements of Algebra (A.)
46. ——— Complete Algebra (Key) (A.)
47. Jocelyn, L. P. High School and Academic Algebra (A.)

48. Keller, S. S. Algebra and Trigonometry (I, II) (V.)
49. Kent, F. C. A First Course in Algebra (L.G.)
50. Lilley, G. The Elements of Algebra (Key) (S.B.)
51. ———
52. Lippincott's Elementary Algebra (Key) (L.)
53. Long & Brenke Algebra, First Course (C.)
54. ———
55. MacDonald, J. W. A Primary Algebra (Key) (A.B.)
56. Marsh, W. R. Elementary Algebra (Key) (S.)
57. Marsh & Ashton College Algebra (S.)
58. Metzler, Roe and Bullard College Algebra (L.G.)
59. Milne, W. J. Grammar School Algebra (A.)
60. ———
61. ———
62. ———
63. ———
64. ———
65. ———
66. Morris, Richard Selected Chapters in Algebra (Ru.)
67. Nicholson, J. W. School Algebra (Key) (A.)
68. Palmer, C. I. Algebra with Applications (M.H.)
69. Patterson, W. E. School Algebra (I, II, III) (O.)
70. Ray, Jos. New Elementary Algebra (A.)
71. ———
72. Rietz & Grathorne College Algebra (H.H.)
73. Robinson, H. N. New Elementary Algebra (Key) (A.)
74. ———
75. Sabin & Lowry Elementary Lessons in Algebra (Key) (A.)
76. Sanford, S. P. Elementary Algebra (Key) (A.)
77. ———
78. Schultze, A. Elementary Algebra (Mac.)
79. ———
80. ———
81. Sensenig, D. M. Elementary Algebra (Key) (A.)
82. ———
83. Sheldon, E. A. Elements of Algebra (Key) (A.)
84. ———
85. Slaught & Lennes First Principles of Algebra (I, II) (A.B.)
86. ———
87. Smith, Charles, revised by
Stringham Elementary Algebra (I) (Mac.)
88. Smith, D. E. Algebra for Beginners (G.)
89. Somerville, F. H. First Year Algebra (A.)
90. ———
91. Stone & Millis Essentials of Algebra, Brief Course and
Complete (Sa.)

92. ——— Elementary Algebra (I, II, C) (Sa.)
93. Tanner, J. H. Elementary Algebra (Key) (A.)
94. ——— High School Algebra (Key) (A.)
95. Taylor, J. M. Elements of Algebra (A.B.)
96. ——— Academic Algebra (A.B.)
97. Venable, C. S. Easy Algebra (A.)
98. Wells, Webster Algebra for Secondary Schools (First Course, Second Course) (H.)
99. ——— Textbook in Algebra (H.)
100. ——— Essentials of Algebra (H.)
101. ——— Academic Algebra (H.)
102. ——— New Higher Algebra (H.)
103. ——— Advanced Course in Algebra (H.)
104. ——— College Algebra (Parts I, II) (H.)
105. ——— University Algebra (H.)
106. ——— Higher Algebra (H.)
107. Wells & Hart First Year Algebra (H.)
108. ——— New High School Algebra (H.)
109. Wentworth, G. A. First Steps in Algebra (G.)
110. ——— School Algebra (G.)
111. ——— New School Algebra (G.)
112. ——— College Algebra (Revised) (G.)
113. ——— Elements of Algebra (G.)
114. ——— Elementary Algebra (G.)
115. ——— Complete Algebra (G.)
116. ——— Shorter Course in Algebra (G.)
117. ——— Higher Algebra (G.)
118. Wentworth & Smith Academic Algebra (G.)
119. ——— School Algebra (Parts I, II) (G.)
120. ——— Vocational Algebra (G.)
121. Wheeler, A. H. First Course in Algebra, Brief Edition; Complete (L.B.)
122. White, E. E. School Algebra (Key) (A.)
123. Wilson Elementary Algebra (Key) (H.N.E.)
124. ——— Elementary Algebra with Review in Algebra by Rubinstein (H.N.E.)
125. Young & Jackson Elementary Algebra (I, II) (Ap.)
126. ——— A High School Algebra (Ap.)

Problems in Algebra.

1. Atwood, G. E. Exercises in Algebra (S.B.)
2. Clay, C. M. Examples in Algebra (Mac.)
3. Davison Exercises from Algebra for Secondary Schools (C.)
4. Jones, G. W. Drill Book in Algebra (Jo.)
5. Leighton, L. R. Review of Algebra (Sb.)

6. McCurdy, M. S. Exercise Book in Algebra (H.)
7. Myers, G. W. Geometric Exercises for Algebraic Solution (Ch.)
8. Nunn, T. P. Exercises in Algebra and Trigonometry (L.G.)
9. Perrin Drill Book in Algebra (L.)
10. Peterson, S. J. Review and Test Problems in Algebra (H.)
11. Rietz & Grathorne Supplementary Exercises and Problems (H.H.)
12. Rivenburg, R. H. A Review of Algebra (A.)
13. Robbins, E. R. Algebra Reviews (G.)
14. Robbins & Somerville Exercises in Algebra (A.)
15. Rubinstein Review in Algebra (H.N.E.)
16. Tibbets, G. P. College Requirements in Algebra (G.)
17. Wentworth & Hill Exercise and Examination Manual (I, II) (G.)
18. Wheeler, A. H. Examples in Algebra (L.B.)

Geometry.

The words "plane," "solid," "combined," will be used to indicate plane geometry, solid geometry, and a combined plane and solid geometry, respectively.

1. Baker, A. L. Elements of Solid Geometry (G.)
2. Beman & Smith Plane; Solid; Combined (G.)
3. Betz & Webb Plane Geometry (G.)
4. Bowser, E. A. Plane; Combined (H.)
5. Bradbury, W. F. Elementary Geometry (D.)
6. ——— Academic Geometry, Plane and Solid (D.)
7. Brooks, E. Elementary Geometry (So.)
8. ——— Geometry and Trigonometry (So.)
9. ——— Plane; Combined (So.)
10. Bush & Clarke The Elements of Geometry (S.B.)
11. ——— The Elements of Plane Geometry (Key) (S.B.)
12. Candy, A. L. Plane and Solid Geometry (with Supplements) (H.)
13. Case, J. The First Six Books of the Elements of Euclid (L.G.)
14. ——— A Sequel to Above, Part I (L.G.)
15. Chauvenet Plane and Solid Geometry (L.)
16. ——— Plane and Solid Geometry (Key) (By-erly Edition) (L.)
17. Davies Legendre's Geometry and Trigonometry (A.)

18. ——— Legendre's Geometry (A.)
19. Dobbs, W. J. A School Course in Geometry (L.G.)
20. Durell, Fletcher Plane; Solid; Combined (M.)
21. Edwards, G. C. Elements of Geometry (Mac.)
22. Failor Plane and Solid Geometry (C.)
23. Ford & Ammerman Plane; Combined (Mac.)
24. Godfrey & Siddons A Shorter Geometry (Pu.)
25. Goff, Robert R. Syllabus of Geometry (Go.)
26. Gore, J. H. Plane and Solid Geometry (L.G.)
27. Hart & Feldman Plane; Solid; Combined (A.)
28. Hill, G. A. Geometry for Beginners (G.)
29. ——— Lessons in Geometry (G.)
30. Holgate, T. F. Elementary Geometry, Plane and Solid
(Mac.)
31. Hopkins, G. I. Inductive Plane Geometry (H.)
32. Hornbrook, A. R. Concrete Geometry (A.)
33. Hull, G. W. Elements of Geometry (A.)
34. Jackson, W. H. Elementary Solid Geometry (L.G.)
35. Keigivn, H. W. Elements of Geometry (H.H.)
36. Keller, S. S. Plane and Solid Geometry (V.)
37. Langley & Phillips The Harper Euclid (In Parts) (L.G.)
38. Lyman, E. A. Plane; Solid; Combined (Key) (A.)
39. Low, D. A. Textbook in Practical, Solid, and De-
scriptive Geometry (I, II) (L.G.)
40. MacDonald, J. W. Principles of Plane Geometry (A.B.)
41. Milne, W. J. Plane; Solid; Combined (Key) (A.)
42. Morris & Husband Practical Plane and Solid Geometry
(L.G.)
43. Petke, G. D. Plane Geometry (S.B.)
44. Phillips & Fisher Plane; Solid; Combined (Key) (A.)
45. Robbins, E. R. Plane; Solid; Combined (Key) (A.)
46. Robinson, H. N. New Geometry and Trigonometry (Key)
(A.)
47. ——— Geometry (A.)
48. Sanders, A. Plane; Solid; Combined (Key) (A.)
49. Sanderson & Brewster A Geometry for Schools (Pu.)
50. Schmall & Shack Elements of Plane Geometry (V.)
51. Schoch, W. Introduction to Geometry (A.B.)
52. Schultze & Sevenoak Plane; Combined (Mac.)
53. Slaught & Lennes Plane; Solid; Combined (A.B.)
54. Smith, Eugene R. Plane; Solid; Combined (Developed by
Syllabus Method) (A.)
55. Stone & Millis Plane; Solid; Combined (Sa.)
56. Venable, C. S. Elements of Geometry (A.)
57. Wells, Webster Elements of Geometry (Plane; Solid;
Combined) (H.)
58. ——— New Plane; Solid; Combined (H.)

59. ——— Essentials of Geometry (Plane; Solid; Combined) (H.)
60. Welsh, A. H. Essentials of Geometry (S.F.)
61. Wentworth, G. A. Plane; Solid; Combined (Revised) (G.)
62. ——— Plane and Solid Geometry and Trigonometry (G.)
63. Wentworth & Hill First Steps in Geometry (G.)
64. Wentworth & Smith Plane; Solid; Combined (G.)
65. White, E. E. (by John Mac-Plane; Combined (Key) (A.)
nie)
66. Young & Schwartz Elementary Geometry (H.H.)

Exercise Books and Tablets for Geometry.

1. Bates & Charlesworth Practical Mathematics and Geometry (V.)
2. Beman & Smith Geometry Tablet (G.)
3. Conant, L. L. Original Exercises in Plane and Solid Geometry (A.)
4. Edgett, G. L. Exercises in Plane Geometry (H.)
5. Estill, J. G. Numerical Problem in Geometry (L.G.)
6. Lyman, E. A. Geometry Exercises (H.)
7. Rivenburg, R. H. Geometry Tablet (R.)
8. Sykes, Mabel Source Book of Problems in Geometry (A.B.)
9. Wentworth, G. A. Geometrical Exercises (G.)
10. Wentworth & Hill Exercise Manual in Geometry (G.)
11. ——— Examination Manual in Geometry (G.)
12. Wright, D. S. Exercises in Concrete Geometry (H.)

Trigonometry.

The word "combined" will be used to indicate a complete plane and spherical trigonometry. (Tables) indicates that the book is published with and without tables.

1. Anderegg & Roe Plane Trigonometry (G.)
2. Bauer & Brooks Plane and Spherical Trigonometry (H.)
3. Bohannon, R. D. Plane Trigonometry (A.B.)
4. Bowser, E. A. Elements of Plane and Spherical Trigonometry (Tables) (H.)
5. ——— Five Place Logarithm Tables (H.)
6. ——— A Treatise on Plane and Spherical Trigonometry and Its Applications to Astronomy and Geodesy (H.)
7. Bradbury, W. F. Elementary Trigonometry (D.)
8. ——— Trigonometry and Surveying (D.)
9. Brooks, E. Plane and Spherical Trigonometry (So.)

10. ——— Geometry and Trigonometry (So.)
11. Byerly, W. E. Syllabus of Plane Trigonometry (G.)
12. Chauvenet Trigonometry (L.)
13. Conant, L. L. Plane; Combined (Tables) (A.)
14. Crawley, E. S. Elements of Plane and Spherical Trigonometry (Tables) (Cr.)
15. ——— Short Course in Plane and Spherical Trigonometry (Tables) (Cr.)
16. ——— Tables of Logarithms (Five Place) (Cr.)
17. Crockett, C. W. Plane; Combined (Tables) (A.)
18. ——— Logarithms and Trigonometric Tables (A.)
19. Durell, F. Plane; Combined (Tables) (M.)
20. ——— Logarithms and Trigonometric Tables (M.)
21. ——— Plane Trigonometry and Surveying with Tables (M.)
22. ——— Plane and Spherical Trigonometry with Surveying Tables (M.)
23. Durfee, W. P. The Elements of Plane Trigonometry (G.)
24. Gore, J. H. Plane and Spherical Trigonometry (Pu.)
25. Granville, W. A. Plane; Combined (Tables) (G.)
26. ——— Four Place Logarithmic Tables (G.)
27. Hall & Fring Plane; Combined (H.H.)
28. ——— Five Place Tables (H.H.)
29. Hall & Knight Elementary Trigonometry (Mac.)
30. Hussey, W. J. Logarithmic and Other Tables (A.B.)
31. Jones, G. W. Drill Book in Trigonometry (Jo.)
32. ——— Four Place Logarithms (Jo.)
33. ——— Five Place Logarithms (Jo.)
34. Keller, S. S. Algebra and Trigonometry (I, II) (V.)
35. Kenyon & Ingold Trigonometry (Tables) (Mac.)
36. Lambert & Foering Plane and Spherical Trigonometry (Mac.)
37. Lock, J. B. (Revised by Mil-Trigonometry for Beginners (Tables) ler, J. A.) (Mac.)
38. Loomis, E. Plane and Spherical Trigonometry with Tables (A.)
39. ——— Tables of Logarithms (A.)
40. Lyman & Goddard Plane and Spherical (Tables) (A.B.)
41. Marsh & Ashton Plane and Spherical Trigonometry (Tables) (S.)
42. ——— Five Place Logarithmic Tables (S.)
43. Moritz, R. E. Plane; Spherical; Combined (W.)
44. Murray, D. A. Plane; Spherical; Combined (Tables) (L.G.)

45. ———, Essentials of Trigonometry and Mensuration (L.G.)
46. ———, Logarithmic and Trigonometric Tables (L.G.)
47. Newcomb, S., Elements of Plane; Combined (Tables) (H.H.)
48. ———, Essentials of Trigonometry, Plane and Spherical with Three or Four Place Tables (H.H.)
49. ———, Mathematical Tables (H.H.)
50. Nicholson, J. H., Elements of Plane and Spherical Trigonometry (Mac.)
51. Palmer, C. I., Trigonometry and Logarithms (M.H.)
52. Palmer & Leigh, Plane Trigonometry with Tables (M.H.)
53. Phillips & Fisher, Logarithms of Numbers (A.)
54. Phillips & Strong, Plane and Spherical Trigonometry (Key) (Tables) (A.)
55. ———, Logarithmic and Trigonometric Tables (A.)
56. Robbins, E. R., Plane Trigonometry (A.)
57. Robinson, H. N., New Geometry and Trigonometry (A.)
58. ———, Trigonometry (A.)
59. Rothrock, D. A., Elements of Plane and Spherical Trigonometry (Mac.)
60. Smith, P. F., Four Place Logarithmic Tables (H.H.)
61. Taylor, J. M., Plane; Combined (G.)
62. ———, Five Place Logarithmic and Trigonometric Tables (G.)
63. Taylor & Puryear, The Elements of Plane and Spherical Trigonometry (G.)
64. Wells, Webster, New Plane; Combined (Tables) (H.)
65. ———, Same with Robbin's Surveying and Navigation (H.)
66. ———, Complete Trigonometry (Tables) (H.)
67. ———, Six Place Logarithmic Tables (H.)
68. ———, Four Place Logarithmic Tables (H.)
69. Wentworth, G. A., Plane and Solid Geometry and Plane Trigonometry (G.)
70. ———, Plane; Combined; Tables (G.)
71. ———, Plane; Combined; Surveying and Tables (G.)
72. ———, Plane and Spherical Trigonometry, Surveying and Navigation (G.)
73. Wentworth & Hill, Logarithmic and Trigonometric Tables for Trigonometry, Surveying and Navigation (G.)
74. ———, Seven Place Tables for Trigonometry and Surveying (G.)

27. ——— Second Year Mathematics for Secondary Schools (Ch.)
28. Newson, H. B. Graphic Algebra (G.)
29. Nichols, E. H. Elementary and Constructional Geometry (L.G.)
30. Norris, H. H. Syllabus of Mathematics (No.)
31. Palmer, C. I. Geometry with Applications (M.H.)
32. Peirce, J. M. Elements of Logarithms (G.)
33. ——— Mathematical Tables (G.)
34. Phillips & Beebe Graphic Algebra (H.H.)
35. Saxelby, F. M. An Introduction to Practical Mathematics (L.G.)
36. ——— A Course in Practical Mathematics (L.G.)
37. Short & Elson Secondary School Mathematics (Book I and Book II) (H.)
38. Smith, D. E. Certain Problems in Teaching Mathematics (G.)
39. Spencer, W. G. Inventional Geometry (A.)
40. Spooner, H. T. The Elements of Geometrical Drawing (L.G.)
41. Tibbetts, G. P. College Requirements in Algebra (G.)
42. Wentworth, G. A. Syllabus of Geometry (G.)
43. ——— Logarithms, Metric Measures, and Spherical Subjects in Advanced Algebra (G.)
44. Wentworth, McLellan & Glashan Algebraic Analysis (G.)
45. Young, J. W. A. Monographs on Topics of Modern Mathematics Relevant to the Elementary Field (L.G.)

PART II.

Publications of State Departments of Education, and of the the United States Bureau of Education, Relating to Mathematics in the Secondary Schools.

ALABAMA.

Rules and Regulations for the Government of the County High Schools. Montgomery, 1913. 16 p.

Contains course of study and lists of authorized texts.

ARKANSAS.

Course of Study for High Schools. Little Rock, 1913.

GEORGIA.

Manual for Georgia Teachers, Atlanta. 295 p.

A valuable general handbook on history, principles, and method in education, though with but little direct reference to secondary schools.

HAWAII.

List of Textbooks Prescribed for Use in the Public Schools in the Territory of Hawaii. Honolulu, 1912. 14 p.

IDAHO.

List of Textbooks Adopted by the State Textbook Commission. Boise, 1907. Pamphlet.

INDIANA.

Course of Study for Secondary Schools. Indianapolis.

KANSAS.

Course of Study for High Schools. Topeka, 1912. 208 p.

Contains outlines of courses in elementary algebra, plane and solid geometry, algebra beyond quadratics, plane trigonometry, and college algebra, with suggestions on methods of teaching each.

KENTUCKY.

Manual and Course of Study for County High Schools. Frankfort, 1911. 43 p.

Contains general suggestions on aim and organization of high schools, qualifications of teachers, and courses of study, with special suggestions on methods in algebra, geometry, trigonometry, arithmetic, and commercial arithmetic.

LOUISIANA.

State Course of Study. Baton Rouge, 1912. 158 p.

Supplement to state course of study and revision thereof. 27 p.

Outlines of courses, suggestions on methods, lists of authorized texts and reference books.

MARYLAND.

Course of Study for High Schools. Annapolis, 1913.

MASSACHUSETTS.

1. Memorandum on Program of Small High Schools. David Snedden, Boston, 1912. 8 p.

Suggested revisions of programs in view of the fact that present programs are too largely determined by college entrance requirements.

2. Mathematics in the High Schools of Massachusetts. J. W. McDonald, Boston, 1909. 35 p.

Suggestions and criticisms on methods of teaching algebra and geometry. Reprinted from 73d report of Massachusetts Board of Education.

3. Relation of Massachusetts High Schools to Community Needs, with special reference to the demand for the so-called practical subjects. 30 p.

Abstract from a report of a special committee of the Massachusetts council of education, 1908.

MICHIGAN.

State Education Department Bulletins as follows:

No. 7, 11 p. 1910, Lansing.

No. 34, 16 p. 1911, Lansing.

No. 45, 31 p. 1912, Lansing.

No. 46, 22 p. 1912, Lansing.

No. 47, 28 p. 1912, Lansing.

No. 48, 29 p. 1912, Lansing.

All are devoted to the teaching of arithmetic, with suggested problems and problem sources.

MINNESOTA.

Catalogue of State University contains outline of mathematics course for secondary schools.

MISSISSIPPI.

State Education Department Bulletin, No. 8, Part II, Jackson, 1913. 8 p.

Contains course of study for county agricultural high schools.

NEVADA.

Course of Study for the Public Schools of Nevada. Carson City, 1912. 113 p.

Contains lists of authorized texts, supplementary and library books, and detailed suggestions on arithmetic teaching.

NEW HAMPSHIRE.

State Course of Study for High Schools. Concord. (Not available for general distribution.)

NEW JERSEY.

1. Syllabus of Mathematics for Secondary Schools.

2. Manual for High Schools. Trenton, 1913. 48 p.

Contains course of study and suggested programs.

3. The Teaching of Elementary Arithmetic. Trenton, 1912. 68 p.

NEW MEXICO.

Circular of Information. Santa Fe, 1913. Pamphlet.

Requirements for teachers' certificates.

NEW YORK.

State Syllabus for Secondary Schools. Albany, 1910. 481 p.

Outlines requirements in advanced arithmetic, elementary algebra, intermediate algebra, plane and solid geometry, trigonometry, and advanced algebra.

NORTH CAROLINA.

1. North Carolina High School Bulletin.

2. Handbook for High School Teachers. Raleigh.

PENNSYLVANIA.

Manual for Borough and Township High Schools. Harrisburg, 1908. 59 p.

Outlines of courses, with suggestions on methods, and lists of reference books.

SOUTH CAROLINA.

High School Manual for Teachers. Columbia, 1911. 101 p.

Contains course of study, with special suggestions on educational values and methods, and lists of authorized text and reference books.

TEXAS.

- State Course of Study for High Schools. Austin.
Outline for mathematics course suggested.

UTAH.

- High School Circular. Salt Lake City, 1913. 101 p.
Contains suggested course of study, and methods, with lists of recommended text and reference books.

VIRGINIA.

- Course of study for Public High Schools. Richmond, 1910. 8 p.
Outline of prescribed courses for high schools of the first, second and third grades.

WEST VIRGINIA.

1. High School Manual. Charleston, 1912. 70 p.
Contains course of study with detailed suggestions on methods in algebra, plane and solid geometry.
2. Report of State Supervisors of High Schools for 1911 and 1912. Charleston, 1912. 40 p.
Statistics of high schools of the first, second, and third grades, with lists of authorized texts.

WISCONSIN.

1. High School Manual. Madison.
Contains outlines of courses with suggestions on methods.
2. Algebra in the High School. H. L. Terry, Madison. 6 p.
Reprinted from School Science and Mathematics, Vol. 10, 1910.
3. Bulletin of Information, No. 12. E. B. Skinner, chairman. Madison, 1905. 15 p.
Report of a committee of the State Teachers' Association on a revision of the content of geometry for high schools. Gives the list of propositions in plane and solid geometry for a year course as selected by the committee.

*Publications of the U. S. Bureau of Education, Washington,
D. C.*

Annual Reports of the Commissioner of Education, 1867-1912.

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|-------|---|--------------|
| 1873. | List of educational publications in 1873, | pp. 826-845, |
| | 20 mathematical titles. | |
| 1874. | List of educational publications in 1874, | pp. 888-913, |
| | 32 mathematical titles. | |
| 1876. | List of educational publications in 1876, | pp. 896-920, |
| | 16 mathematical titles. | |
| 1877. | List of educational publications in 1877, | pp. 618-633, |
| | 34 mathematical titles. | |
| 1878. | List of educational publications in 1878, | pp. 702-719, |
| | 29 mathematical titles. | |
| 1879. | List of educational publications in 1879, | pp. 722-744, |
| | 28 mathematical titles. | |

1880. List of educational publications in 1880, pp. 876-902,
36 mathematical titles.
1881. List of educational publications in 1881, pp. 792-828,
45 mathematical titles.
- 1882-83. List of educational publications in 1882-83, pp. 820-860,
78 mathematical titles.
- 1883-84. List of educational publications in 1883-84, pp. 881-930,
66 mathematical titles.
- 1885-86. List of educational publications in 1885-86, pp. 677-708,
44 mathematical titles.
- Time given to mathematics in English schools, pp. 737-738.
- 1886-1887.
1. Detailed comparison of programs in French and American secondary schools, pp. 1010-1014.
 2. Requirements in 21 colleges compared, pp. 631-641.
- 1888-89.
- A comparison of the schools of the United States, Germany and France, pp. 32-75.
- Contains typical courses of study in Prussian and French high schools, and the number of hours per week devoted to each subject.
- 1890-91.
1. Time devoted to mathematics in French schools, p. 119.
 2. Time devoted to mathematics in Japanese schools, p. 243.
- 1892-93.
1. Report of the committee of ten on secondary school studies, pp. 1415-1448.
Contains an abstract of the report on mathematical teaching in secondary schools (pp. 1426-1427).
 2. The curriculum for secondary schools. W. T. Harris. Pp. 1457-1464.
 3. List of papers and addresses considered in the volumes of Proceedings of the National Educational Association from 1870 to 1893, inclusive. Pp. 1514-1549.
Classified by subjects and by authors.
- 1893-94.
1. German Bibliography of the history and methods of arithmetic. Matthaues Sterner. Pp. 314-323.
230 titles, all German.
 2. Report of the committee of fifteen on correlation of studies. Pp. 497-502. Part B.
Relates to arithmetic and the transition to algebra.
 3. Educational bibliography. Pp. 1701-1722.
Mathematical section, p. 1716, contains 7 titles.
- 1896-97.
- Entrance requirements for engineering colleges. Pp. 891-898. Also published separately as No. 238-16.

Report of a committee of the Society for the Promotion of Engineering Education, August, 1896. Eighty-nine engineering colleges classified according to entrance requirements, principally on a mathematical basis. Uniform requirements recommended in arithmetic, algebra, plane and solid geometry and plane trigonometry.

1897-98.

Notes on the history of American textbooks in arithmetic. Pp. 789-868. Also published separately as No. 257-18. J. M. Greenwood and Artemas Martin.

Describes 250 American arithmetics from 1729 to 1860.

1898-99.

1. The U. S. Naval Academy at Annapolis. Edward S. Holden. Pp. 747-780. Also published separately as No. 216-13.

Contains details of the mathematical course with textbooks.

2. Notes on the history of American textbooks in arithmetic. Pp. 781-835. Also published separately as No. 260-14. J. M. Greenwood and Artemas Martin.

Describes 250 American arithmetics from 1861-1892.

3. Confederate Textbooks (1861-1865). Pp. 1139-1155. Also published separately as No. 260-20. Stephen P. Weeks.

Bibliography and description, including 11 arithmetics.

1899-1900.

Statistical table giving number and percentage of pupils in public and private high schools, studying algebra, geometry and trigonometry. P. 2122.

(Similar information is given in nearly all the annual reports.)

1903.

1. Secondary Education. Pp. 553-583. Also published separately as No. 341-13. Elmer E. Brown.

Gives courses of study of early American academies, and material on modern high school courses.

2. Education in France. Pp. 585-622. Also published separately as No. 341-14.

Contains comparison of American and French secondary courses of study.

3. State Normal Schools of the United States. Pp. 1103-1136. Also published separately as No. 341-23. E. O. Lyte.

Contains typical normal school courses of study.

4. Exhibit of Bureau of Education at the Louisiana Purchase Exhibition. Pp. 1137-1184. Also published separately as No. 341-24. Shows development of mathematical curriculum from seventeenth century.

5. Courses of Study in German Schools. Pp. 1217-1242. Also published separately as No. 341-27.

1904.

The Educational System of Sweden. Pp. 767-797. Also published separately as No. 356-10.

Shows amount of time given to mathematics in Swedish schools.

1905.

Report of the Mosely Commission to the United States of America, 1903. Pp. 11-38. Also published separately as No. 365-3.

1907.

Statistical tables giving number of pupils in public and private high schools studying algebra, geometry and trigonometry from 1889 to 1906. P. 1050.

1909.

American Federation of Teachers of Mathematical and Physical Sciences. P. 56.

Account of formation, constituent bodies, etc.

1910.

1. American Federation of Teachers of Mathematical and Physical Sciences. P. 54.

Meeting held at Boston, 1909. Outline of committee report on geometry syllabus.

2. International Commission on the Teaching of Mathematics. Pp. 159-162.

Account of organization, scope, general plan and progress of the inquiry in the United States.

3. Secondary Schools. Pp. 1127-1196.

Contains course of study recommended by the committee of ten, and amount of time to be devoted to each subject, including algebra, geometry and trigonometry.

1911.

American Federation of Teachers of the Mathematical and Physical Science. P. 237.

Resolutions on college entrance examinations in mathematics, presented at the meeting of December 28, 1910.

Circulars of Information.

1. Publication No. 167. (Circular of Information, 1890, No. 3.) The Teaching and History of Mathematics in the United States. 400 p. Florian Cajori.

An extensive and valuable work. (Now out of print.) Contents:

Part 1. Colonial times.

Part 2. Influx of English Mathematics.

Part 3. Influx of French Mathematics.

Part 4. Mathematical Teaching at the Time.

Part 5. Historical Essays.

(a) History of Infinite Series.

(b) On Parallel Lines and Allied Subjects.

(c) On the Foundations of Algebra.

(d) Difference between Napier's and Natural Logarithms.

(e) Circle Squarers.

Appendix contains a bibliography of Fluxions and the Calculus.

2. Publication No. 205. 244 p.

Report of the committee on secondary school studies appointed at the meeting of the National Educational Association, July 9, 1892, with the reports of the conferences arranged by this committee and held December 28, 1892.

Bureau of Education Bulletins.

1908, No. 2. 69 p.

List of Publications of the U. S. Bureau of Education, 1867-1907.

1910, No. 3, 55 p.

List of Publications of the U. S. Bureau of Education, 1867-1910.

1911, No. 4. 27 p.

Bibliography of Science Teaching.

Compiled by a committee of the American Federation of Teachers of Mathematics and Science. Mathematics Section contains 40 titles.

1911, No. 6. 63 p.

Graduate Work in Mathematics in Universities and in other Institutions of like grade in the United States.

Report of Committee No. XII, Maxime Bôcher chairman, of the International Commission on Mathematical Teaching. (American Report.) Contains the general report, and that of subcommittee 1 on Courses of Instruction and the Master's Degree; of subcommittee 2 on Preparation for Research and the Doctor's Degree; and of subcommittee 3 on the Preparation of College and University Instructors in Mathematics.

1911, No. 7. 30 p.

Undergraduate Work in Mathematics in Colleges of Liberal Arts and Universities.

Report of Committee No. X, H. S. White chairman, of the International Commission on Mathematical Teaching. Contains, besides the general report, reports of subcommittees on men's colleges, on women's colleges, and on co-educational colleges.

1911, No. 8. 72 p.

Examinations in Mathematics other than those set by the teacher for his own Classes.

Report of Committee VII, T. S. Fiske chairman, of the International Commission on Mathematical Teaching. Contains the general report and that of subcommittees as follows:

1. Nature of Promotion in Elementary Schools and Admission to Secondary Schools.
2. Entrance to College by College Examinations.
3. Entrance to College by State Examinations.
4. Entrance to College by Entrance-board Examinations.
5. Entrance to College by Certification.
6. State and Local Examinations of Teachers.
7. Examinations of Actuaries.

1911, No. 9. 44 p.

Mathematics in the Technological Schools of Collegiate Grade in the United States.

Report of Committee No. IX, H. W. Tyler chairman, of the International Commission on Mathematical Teaching. Contains the general report and reports of subcommittees on independent technological schools, and on technological departments of colleges and universities.

1911, No. 12. 23 p.

Training of Teachers of Elementary and Secondary Mathematics.

Report of Committee No. V, E. H. Taylor chairman, of the International Commission on Mathematical Teaching. (American Report.) The report is made up as follows:

1. The Training of Teachers of Mathematics in professional schools of collegiate grade, separate from or connected with colleges or universities.
2. State Normal Schools.
3. Private Normal Schools.
4. Teachers for Normal Schools.

1911, No. 13. 185 p.

Mathematics in the Elementary Schools of the United States.

Report of Committees I and II of the International Commission on Mathematical Teaching. (American Report.)

1911, No. 16. 187 p.

Mathematics in the Public and Private Secondary Schools in the United States.

Reports of Committees III and IV, C. W. Evans and Wm. E. Stark chairmen, of the International Commission on Mathematical Teaching. (American Report.) Contains the general reports and special reports as follows:

- On Boys' High Schools.
- On Girls' High Schools.
- On Co-educational High Schools in the East, in the West, in the South, and on the Pacific Coast.
- On Preparation of Teachers of Mathematics for Public High Schools.
- On the Six Year High School.
- On Failures in the Technique of the Teaching of Secondary Mathematics—Their Causes and Remedies.

The report of Committee IV on Mathematics in Private Secondary Schools discusses Aim and Methods, Examinations and Tests, Syllabus Method in the Polytechnic Preparatory School of Brooklyn, Mixed Mathematics in the University High School, Chicago, Mathematical Club in the Shattuck School, Faribault, Minn., etc. In appendix A, Mathematical Instruction in the Evening Technical Schools; B, Mathematical Teaching in Private Correspondence Schools; C, Teaching of Mathematics in Schools and Colleges for Negroes.

1912, No. 2. 25 p.

Mathematics at West Point and Annapolis.

Report of Committee XI, C. B. Upton chairman, of the International Commission on Mathematical Teaching, contains special reports as follows:

1. Mathematics in the Training of Army Officers, including schools for graduates of West Point. Includes U. S. Military Academy; Engineer School of Application, Washington; Ordnance School of Application, Sandy Hook; and Coast Artillery School.
2. Mathematics in Schools for Training Naval Officers, including school for graduates of Annapolis.

1912, No. 4. 35 p.

Mathematics in the Technical Secondary Schools of the United States.

Report of Committee VI, C. N. Haskins, chairman, of the International Commission on Mathematical Teaching. (American Report.) Contains special reports as follows:

1. On Public, Private, and Corporation Trade Schools (incorporated in the general report).
2. On Public and Private Commercial Schools.
3. On Agricultural Schools.
4. Supplementary Report on the Industrial School of Secondary and Intermediate Grade.

1912, No. 13. 47 p.

Influences Tending to Improve the Work of the Teacher of Mathematics.

Report of Committee No. VIII, E. P. Cubberly chairman, of the International Commission on Mathematical Teaching. (American Report.) Contains special reports as follows:

1. On Scientific Societies and Periodical Literature.
2. On Teachers' Associations.
3. On Teachers' Institutes.
4. On State Supervision and Inspection of Instruction.
5. On Activities of Publishers and their Agents.
6. On Teaching of Mathematics in Summer Sessions of Universities and Normal Schools.

1912, No. 14. 84 p.

Report of the American Commissioners of the International Commission on the Teaching of Mathematics.

1912, No. 29. 95 p.

Bibliography of the Teaching of Mathematics, 1900 to 1912.

David Eugene Smith and Charles Goldziher. 1849 titles, including both English and foreign.

1913.

Report of the National Committee of Fifteen on Geometry Syllabus (jointly authorized by the National Educational Association and the American Federation of Teachers of the Mathematical and the Natural Sciences).

PART III.

Association Reports and Publications and College Publications.

(Exclusive of those published through the educational journals.)

Topics: Mathematics in the Secondary Schools; The Teaching of Algebra; The Teaching of Geometry; The Teaching of Trigonometry.

Mathematics in the Secondary Schools.

1. Breckenridge, W. E. Applied Problems. Report of the Schoolmaster's Association of New York, 1910-1911.
2. Burger, C. R. What have we a Right to Expect of the High School in Mathematics Preparation for the College? Proceedings of the Colorado State Teachers' Association.
3. Chandler, E. F. Approximations as a Check upon Mathematical Calculations. 1912 Proceedings North Dakota Educational Association.
4. Comstock, C. E. Unification of Secondary Mathematics. Proceedings of National Education Association, 1904.
5. Evans, George W. The Teaching of Mathematics in the Public Secondary Schools of the United States. Report of the Schoolmaster's Association of New York, 1910-1911.
6. Feldman, D. D. Loss of Efficiency in the Recitation in Mathematics. Report of the Schoolmaster's Association of New York, 1912-1913.
7. Hart, W. W. Review of the Teaching of Mathematics in the Past Decade. Proceedings of Central Association of Science and Mathematics Teachers, 1912.
8. Mathematics in the High School. Bulletin 193, the University of Texas.
9. Moore, E. H. On the Foundations of Mathematics. Bulletin of the American Mathematical Society, Vol. 9, No. 8, May, 1903.
10. Mortiz, R. E. Mathematical Books for the High School Shelf. Special Bulletin of the State Library, Olympia, Washington.
11. Patterson, J. L. Economy in Mathematics Instruction. Proceedings National Education Association, 1896.
12. Report of the Committee of the American Mathematical Society of the Definitions of College Entrance Requirements. Bulletin, Vol. X, No. 2, November, 1903.
13. Report of the Committee on Entrance Requirements in Mathematics. Proceedings of the National Education Association, 1903.
14. Report of the Committee on Unifying Mathematics. Proceedings of the Central Association of Science and Mathematics Teachers, 1908.
15. Simcox, W. B. Cultural Mathematics versus Practical Mathematics. Proceedings North Dakota Educational Association, 1912.
16. Skinner, E. B. The High School Course in Mathematics. Bulletin of University of Wisconsin, 350.

17. ———. Some Desirable Modifications in the Course of Study for Secondary Mathematics. Bulletin No. 2, 1912, Wisconsin State Teachers' Association.
18. Smith, Eugene R. Recent Progress in Mathematics Teaching. Report of the Schoolmaster's Association of New York, 1910-1911.
19. Stark, W. E. The Teaching of Mathematics in the Private Secondary Schools of the United States. Report of the Schoolmaster's Association of New York, 1910-1911.
20. Syllabus of Mathematics Report compiled by the Committee on the Teaching of Mathematics to Students of Engineering, Society for the Promoting of Engineering Education. For sale by secretary, Ithaca.
21. Tinsley, S. B. Amount of Mathematics in the Secondary School Course. Proceedings of National Education Association, 1904.
22. Thornton, E. L. Mathematics in Commercial Work. Proceedings of National Education Association, 1903.

The Teaching of Algebra.

1. Algebra for Secondary Schools. Proceedings of National Education Association, 1909.
2. Mathematical Review, Part II. Algebra. Published by Rensselaer Polytechnic Institute.
3. Report of the Committee of the Central Association on Algebra in the Secondary Schools. The Central Association of Science and Mathematics Teachers.
4. Syllabus of Elementary and Intermediate Algebra. Association of Teachers of Mathematics in the Middle States and Maryland.

The Teaching of Geometry.

1. Benedict, H. Y., and Calhoun, J. W. The Teaching of Plane Geometry. Bulletin No. 243, the University of Texas.
2. Geometry and Algebra Teaching in Secondary Schools. Proceedings of National Education Association, 1909.
3. Loci. Published by the Association of Mathematical Teachers in New England.
4. Mathematical Review. Part III. Geometry. Published by Rensselaer Polytechnic Institute.
5. Report of the Committee on Geometry. Proceedings of the Central Association of Science and Mathematics Teachers, 1908.
6. Report of the National Committee of Fifteen on Geometry Syllabus. See Bureau of Education, 1913.
7. Syllabus of Propositions in Geometry. Harvard University. First Edition, 1896, revised 1912.
8. Syllabus of Geometry. Edited by the Association of Mathematical Teachers of New England. Ginn & Co.

9. Travis, C. R. Humanizing Geometry. Proceedings of North Dakota Educational Association, 1913.

The Teaching of Trigonometry.

1. Moritz, R. E. Desiderata in Modern Courses in Plane Trigonometry. Proceedings of the Washington State Educational Association, 1907.
2. Trigonometry in the High School. Bulletin 208, the University of Texas.